Mr.Ahmed ElBasha

Primary 6

Second Term General Revision

Model Answers

Student's book from page 90 till 122. 2019/2020

| Name: | |
|--------|--|
| Class: | |
| | |



Lesson (1-1) Exercises

P10 & 11 in the student's book

Q1:

a. Fulcrum

d. Third class lever

b. Lever

e. Second class lever

c. First class lever

Q2:

- a. Increase the speed, increase the force and increase the distance.
- b. First, third.
- c. Scissors and seesaw.
- d. Nutcracker and bottle opener.
- e. Manual broom and coal holder.

Q3:

First third third

Second second

Q4:

First class: (scissors- hammer claw)

Second class: the resistance force is between the effort force and the fulcrum. (Bottle opener-wheel barrow)

Third class: the effort force is between the resistance force and the fulcrum. (Tweezers- hockey bat)

Lesson (1-2) Exercises

P18 & 19 in the student's book

<u>Q1</u>:

- a. The force X its arm = The Resistance X its arm.
- b. 2nd, 3rd.
- c. Effort arm, resistance arm.
- d. Force arm and resistance arm are equal.



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- a. Because the force arm is always bigger than the resistance arm.
- b. Resistance arm is always bigger than the force arm.
- c. The 2 arms are equal.
- d. Some levers help us to perform the tasks more easily by increasing the distance of avoid dangers.

Q3:

Figure (A) conserves the effort as it is a second class lever where the effort force is smaller than the resistance force.

Figure (B) doesn't conserve the effort as it is a third class lever where the effort force is bigger than the resistance force.

Q4:

The force X its arm = The Resistance X its arm. 500X

500X20=200X.....

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$$\frac{500X20}{200} = 50 \text{ cm.}$$

Unit 1 Test

P22 & 23 in the student's book

Q1:

First class levers -----levers that sometimes conserve the effort

Second class levers ----- levers that always conserve the effort.

Third class levers -----levers that not conserve the effort.

The levers -----a rigid bar rotates around a focal point, and is affected by a force and a resistance.

The fulcrum -----fixed point that a rigid bar sets on.

Q2:

a. (X) second

c. (X) first

e. (X) doesn't

b. (X) third

d. $(\sqrt{})$

Q3:

 $\stackrel{\wedge}{\swarrow}$

a. 2nd

c. 1st

e. 1st

b. 3rd

d. R X its arm.

Q4:

| definition | The fulcrum is | The resistance is | The effort is |
|--------------|---------------------------|----------------------|----------------------|
| | between the force of | between the force | between the force of |
| | effort and the force | of effort and the | resistance and the |
| | of resistance | fulcrum | fulcrum. |
| Conservation | Sometimes conserve | Always conserve | Don't conserve the |
| of effort | the effort | the effort | effort |
| examples | seesaw | Bottle opener | Hockey bat |

<u>Q5:</u> <u>Q6:</u>

3rd 1st 2nd $\frac{00X50}{100} = 100$ cm. $\frac{300X1}{100} = 900$ N.

Lesson (2-1) Exercises

P35in the student's book

Q1:

- a. Light bulb, fluorescent lamps.
- b. Tungsten, melting point

- c. Glass bulb, tungsten filament and the base.
- d. Argon.

Q2:

a. Series

b. Electric lamps

c. Parallel connection

<u>Q3:</u>

- a. It will melt at high temperature.
- b. The filament will burn at high temperature.
- c. When one of the lamps is damaged or turned off all the other lamps will turn off.

Q4:

a. They allow the electric current to pass from the base of the bulb to the tungsten filament.

- b. All lamps functions alone and the lighting in each room is independent from the lighting in any other room.
- c. As it has a high melting point.

Lesson (2-2) Exercises

P44-45in the student's book

Q1:

- a. Copper, iron
- b. Paper, plastic, wood
- c. Electric shock, electric burns, electric fires
- d. Electric burns
- e. A good conductor of electricity.
- f. Inserting several connections in one socket, not disconnecting the electric machines after usage and placing the machine that generates heat near to flammable material.
- g. Electricity.
- h. Strength of the current, time it took
- i. Do not insert a metal object in the socket, do not place several connections in the same socket.
- j. Touching a part of the body directly to an electric current source, touching fire or the spark resulting from the occurrence of an electric fire to a part of the body.

Q2:

- a. Electric shock
- c. Electric burns
- e. Electric fires

- b. Electric fires
- d. Electric shock

Q3:

- a. Electric shock
- b. Electric fires
- c. Electric burns

Unit 2 Test

P48-49 in the student's book

Q1:

a. Parallel, series



- b. Do not insert a metal object in the socket, do not place several connections in the same socket.
- c. Battery, wires, lamb and electric switch.
- d. Plastic, rubber and wood
- e. Series way

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- a. Light
- b. Tungsten
- c. Series
- d. Fluorescent lamps
- e. Electric shock

f. Parallel

g. In parallel

h. Argon

i. copper

Q3:

- a. Because the air contains oxygen that helps in burning while inert gas does not help in burning
- b. Because metal things are good conductor of electricity and it may lead to electric shock.
- c. To connect the electricity
- d. To avoid electric fires.

Q5:

- a. Conducting materials
- **b.** Electric fires
- c. Non-conducting materials (insulators)
- d. Series way

e. Electric lamps

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- f. Parallel way
- g. Electric shock
- h. Electric burns

Lesson (3-1) Exercises

P58- 59 in the student's book

Q1:

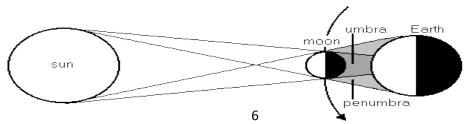
Partial solar eclipse

Annular solar eclipse

Q2:

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Q3:

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- a. Its ray harms the eye and it can lead to blindness within a few minutes.
- b. The cone shadow doesn't reach the earth surface.
- c. Due to the difference in the part of the sun that the moon hides during its passage in front of the sun.

Lesson (3-2) Exercises

P65 in the student's book

Q2:

a. √

b. √

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Q4:

Because the earth has a great size relative to the moon so it always blocks all sunlight when it comes between the sun and the moon on the same straight line.

Lesson (3-3) Exercises

P71 in the student's book

Q1:

- a. To find the suitable reasons for the astronomical phenomena that he observed in the sky.
- b. To determine the start of the holy month of Ramadan through a clear vision atmosphere.
- c. To obtain a clear vision for the space and monitoring it accurately

Unit 3 Test

P74-75 in the student's book

<u>Q1:</u>

a. Its ray harms the eye and it can lead to blindness within a few minutes.

- b. Due to the difference in the part of the sun that the moon hides during its passage in front of the sun.
- c. Because the earth has a great size relative to the moon so it always blocks all sunlight when it comes between the sun and the moon on the same straight line
- d. To obtain a clear vision for the space and monitoring it accurately.
- e. To explore the outer space.
- f. Because the moon hides all the sunlight from the earth as the moon size seems nearly equal to that of the sun.

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- a. Solar eclipse, moon
- b. Lunar eclipse, earth
- c. Telescopes, observatories.
- d. Annular.

Q3:

a. √

c. \

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b. X Galileo

d. √

<u>Q4:</u>

- a. It is the dark inner shadow in which the total solar eclipse appears.
- b. It is the faint outer shadow in which the partial solar eclipse appears.
- c. Is formed in the shadow area of the moon in which we cannot see the sun completely.
- d. In the semi-shaded area of the moon, we can see a part of the sun forming what is known as the partial solar eclipse.
- e. When the moon comes in an orbit higher from earth as it revolves around it in an oval orbit, the cone shadow does not reach the earth's surface
- f. Occurs when the whole moon enters the shadow area of earth.

Q6:

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- a. Telescope
- b. Total lunar eclipse
- c. The partial lunar eclipse
- d. Lunar eclipse

Lesson (4-1) Exercises

P84-85 in the student's book

Q1:

- a. 3
- b. 2

- c. 1
 - d. 2
 - e. 2

Q2:

- a. Osmosis
- b. Root hair
- c. Transpiration
- d. xylem
- e. Guard cell

Q3:

- a. Osmosis
- b. Root hair
- c. Sticky
- d. Transpiration
- e. Guard cells

Q4:

- 1. Epidermis
- 2. Cortex
- 3. Endodermis
- 4. Xylem

Root hair

Shoot system

Root system

Unit 4 Test

P88-89 in the student's book

Q1:

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- a. 1
- **b.** 3
- c. 3

Q2:

- a. Transpiration
- b. Osmosis
- c. Root hair
- d. Guard cells

Q3:

- a. X root hair
- b. X transpiration
- c. X stomata

Q5:

a. Is losing of water in the shape of water vapor from the leaves or from other green parts to its surroundings through holes in the plant leaves. **☆☆☆☆☆☆☆☆☆☆☆☆☆**

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b. Is the transmission of water molecules through a semi-permeable membrane from an area with a high concentration of water to an area of low concentration.

First Exercise

P90-91-92-93 in the student's book

Q1:

| 1. c | 7. b |
|------|------|
| 2. b | 8. c |
| 3. b | 9. c |
| 4. c | 10.b |
| 5. a | 11.a |
| 6 6 | 12 9 |



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X=2 Newton

Y=10 cm

Q3:

1. Because these machines are beneficial in other things such as increasing the distance, speed or precision.

- 2. Because the two arms are different
- 3. Because it makes the tasks perform more easily by increasing the speed or distance, avoid dangers and moving the force from one place to another.
- 4. Because it has a high melting point which protect it from melting in high temperature.
- 5. Because in parallel connection way if one lamp is damaged or turned off the other lamp won't be affected.
- 6. Because it carries the lamp upright and connects the lamp with the electric current.
- 7. Because it helps the root hair in penetration of soil particles to absorb the water from it.
- 8. Because the salt concentration inside the plant cells is larger than the salt concentration inside the soil.
- 9. Because the plant loses water in the form of water vapor through these holes so-called stomata.
- 10.Because the epidermal cells are lost from time to time by the resistance of soil particles during the expansion of the root.
- 11. To regulate the opening and closing of these stomata during the transpiration process.
- 12. To allow the penetration of water and salts through it.
- 13.Because non-conducting materials such as wood does not allow the electricity to pass through it.

Q4:

- 1. Solar: the moon is in the middle. Lunar: the earth is in the middle
- 2. Series: connection of lamps is by one after one, while Parallel: connection of lamps is in branching.



- 3. 3^{rd} class the force is in the middle 1^{st} class the fulcrum is in the middle.
- 4. Good: allow the electricity to pass through. Insulators: do not allow.

Q5:

Q6:

Force x its arm = resistance x its arm $100 \times 25 = 500 \times X$

$$X = \frac{100x25}{500} = 5 \text{ cm}.$$

Second Exercise

P94-95 in the student's book

Q1:

- 1. Good conductors of electricity
- 2. Lever
- 3. Galaxies
- 4. Transpiration

Q2:

- 1. b
- 2. c
- 3. a

Q3:

1. If one lamp is damaged or turned off the others will turn off.

- 2. Total lunar eclipse
- 3. Partial lunar eclipse

Q4:

1. √

2. X

4. √ 5. X

3. X

Q5:

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- 1. Because it has a high melting point which protect it from melting in high temperature.
- 2. Because argon is an inert gas that increase the life time of the filament and protect it from burning.
- 3. To regulate the opening and closing of these stomata during the transpiration process.
- 4. Because water is a good conductor material of electricity that may lead to increase the electric fires.

Q6:

- 1. It is the result of an electric current passing through the human body.
- 2. It is the type of solar eclipse in which the sun appears as a lighting ring and it is formed when the moon is in a higher orbit from the Earth.
- 3. Astronomical observatories that study stars and galaxies from their location outside Earth's atmosphere.
- 4. The group of millions of stars forming beams of light in the middle of extreme darkness in the space.
- 5. Is losing of water in the shape of water vapor from the leaves or from other green parts to its surroundings through holes in the plant leaves.
- 6. Allow of some salts to pass through according to the plant's need.

Third Exercise

P96-97-98-99-100-101-102-103-104-105-106-107-108-109-110

In the student's book

Q1:

- 1. Lever
- 2. Rigid bar
- 3. 1^{st} , 3^{rd}
- 4. Thomas Edison
- 5. Parallel
- 6. Argon

7. Conductors, insulators.

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- 8. Electric shock
- 9. Earth, sun and moon.
- 10.Spiral, four.
- 11.Sticky
- 12. Selective.



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- 1. 2nd class lever.
- 2. Law of lever
- 3. Filament
- 4. Levers
- 5. Series connection way
- 6. Electric insulator

7. Partial lunar eclipse

- 8. Galaxies
- 9. Telescope
- 10.Stomata
- 11.Transpiration.

Q3:

- 1. To make it easier to reach the burnt out lamp and replace it while other lamps are not affected.
- 2. Its rays harm the eye and it can lead to blindness within a few minutes.
- 3. Because the effort force is always bigger than the resistance force
- 4. To allow the electric current to pass through it.
- 5. To prevent the electric current from reaching the human body.
- 6. As the electric load increase that lead to electric fires.
- 7. When the moon comes between the sun and earth in different positions.
- 8. Because it emits rays that harm the eye and it can lead to blindness within few minutes.
- 9. To expose and direct the telescope towards any part of the sky.
- 10.To find suitable reasons for the astronomical phenomena that he observed in the sky.

Q4:

- 1. X
- 2. X
- **3.** √
- 4. X
- 5. X
- 6. X
- **7.** √
- **8.** √

- 9. X
- **10.**√
- **11.**√
- **12.**√
- **13.**√
- **14.**√
- **15.**√

Q5:

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- 1. c
- 2. b
- 3. a
- 4. c
- 5. b
- 6. b

- 7. c
- 8. b
- 9. d
- 10.c
- 11.c
- 12.b

Q6:

- 1. 2nd
- 2. Inactive
- 3. Wires
- 4. Second
- 5. Two filament of tungsten
- 6. Light
- 7. Water

- 8. copper
- 9. Tentatively
- 10.Annular
- 11.Galileo

(2)

1-c

2-b

3-е

- 12.Root hair
- 13.Two guard cells

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14. Transpiration

Q8:

- <u>(1)</u>
- **1-b**
- **2-c**
- 3-a
- **4-g**
- **5-d**
- <u>(3)</u>
- **1-c**
- **2-b**

<u>Q9:</u>

- 1. The tasks will be hard to be performed
- 2. We can't observe space and study it.
- 3. Total lunar eclipse will occur.

- 4. Total solar eclipse will occur.
- 5. This lever conserves the effort.
- 6. Copper filaments will melt at high temperature.
- 7. The filament will burn
- 8. It can cause a lot of dangers such as electric shock, electric fires and electric burns.
- 9. The electric current won't pass through the circuit.
- 10.It may lead to electric shock if someone touches it.
- 11. The rays will harm the eye and may lead to blindness for few minutes.
- 12. The plant will not be able to lose the excess water in the form of water vapor.
- 13.To lose the water in the form of water vapor
- 14. The Stoma will not be able to open and close during transpiration.
- 15.Plant won't be able to absorb the water from the soil
- 16.It will be hard for the root hair to penetrate the soil in order to absorb water form it.
- 17. Water will not pass through the membrane from the soil to the plant.
- 18. Forming the umbra and penumbra area.
- 19. Water will increase the electric fire.

Q10:

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First question:

| 1. Electric lamp | Second question: | Third question: |
|------------------|-----------------------|-------------------|
| - | 1. Epidermis | 1. Penumbra area |
| 2. Wires | 2. Cortex | 2. Moon |
| 3. Positive pole | 3. Endodermis | 3. Sun |
| 4. Battery | J. Endouerms 4 Yvlem | J. Sun 4 earth |

Q11:

- 1. Resistance arm= 4 cm.
- 2. Resistance force= 100 Newton
- 3. Resistance force= 320 Newton
- **4.** Force arm= 10 cm

Test 1 p.111-112

<u>Q1</u>

- a. Fulcrum
- b. Electric fires
- c. Root hair
- d. transpiration

<u>Q2</u>

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- a. X
- b. X
- c. X
- **d.** √
- e. X

<u>Q3</u>

- a. 2nd
- b. Electric current
- c. Stoma
- d. Resistance X its arm

Q4:

| Solar eclipse | Lunar Eclipse |
|--|---|
| When the moon lies between the earth and the sun at one straight lines | When the earth comes between the moon and the sun at one straight line. |
| Solar eclipse always occurs in the morning. | Can be seen from any point on the earth at night. |
| Causing blindness and needs precautions from direct looking at it. | Doesn't require precautions or warning to look at it. Has no harms. |
| Duration doesn't exceed 7 minuets. | Duration is two hours or more. |

1 - Electric conductors

Materials that allow electricity to flow through it

Examples

metal materials (aluminium - iron - copper) - water.

2- Electric insulator

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Materials that do not allow electricity to flow through it.

Examples

(plastic, rubber, wood, and glass).



<u>Q5</u>

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- a. Because the light of the sun passes in straight lines and if a dim object as the moon or the earth obstruct it, a shadow is formed.
- b. To avoid the occurrence of electric fires.
- c. Because in the first class levers only, the effort arm may be equal to the resistance arm as the fulcrum is in the middle.
- d. Because they occur as a result of the earth and the moon rotation which can be calculated by scientists.

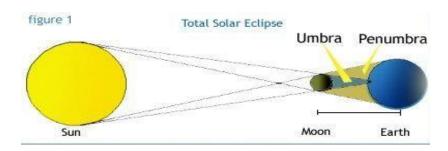
<u>Q6</u>

Force x its arm = resistance x its arm

$$500 \times 20 = 200 \times ...$$

The resistance arm= $\frac{500 \times 20}{200}$ = 50 cm

<u>Q7</u>



Test 2 p.113-114

Q1:

- a. 1
- b. 2
- c. 4
- d. 1

<u>Q2:</u>

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- 1. To allow the passage of mineral salts and water from soil to the plant.
- 2. Because sometimes in the 1st class levers, the force arm is longer than the resistance arm.

- 3. Because argon in an inert gas which resist the high temperature while the atmospheric air has oxygen which helps in burning.
- 4. Because the water is a good conductor of electricity.
- 5. To avoid harmful ultraviolet rays which causes blindness for several minutes

Q3:

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(A)

- 1- It melts easily at which electric current pass through
- 2- He effected by electrical shock
- 3- Plant can't absorb water and mineral salts then it die.

(B)

- 1- Used in houses offices, decorating stores.
- 2- A device that collects light to see the distant objects on earth or planets and stars clearly to form magnified photos of celestial bodies.

Q4:

<u>a)</u>

| Total solar eclipse | Partial solar eclipse |
|--------------------------|--|
| The earth lies in the | The earth lies in the semi – shaded area |
| shadow area of the moon | (penumbra) we can see a part of the |
| that equal 250 K.m | sun. |
| radius in which we can't | |
| see the sun completely. | |
| | |

| 2 nd Class lever | 3 rd Class lever |
|---|--|
| Class 2 Lever | Class 3 Lever Load Fulcrum or Effort |
| The Resistance is between the Effort and the Fulcrum. | The Effort is between the Resistance and the Fulcrum. |
| Wheel barrow. A bottle opener. Nut cracker. Stapler. | Fishing tool. Manual broom. Ice holder. Tweezers. |

b)

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- 1- Is a rigid bar that rotates around a fixed point called the fulcrum and is affected by effort force and resistance force.
- 2- Is the losing of water in the shape of water vapor from the leaves or from other green parts to its surroundings through holes in the plant leaves called "stomata".

Q5:

- 1. Good
- 2. total
- 3. Water only
- 4. Of stars
- 5. Lower surface

Test 3 p.115-116

Q1:

a. 2

d. 2

b. 2

e. 2

c. 1

Q2:

- 1. Because the force arm is always shorter than the resistance arm.
- 2. To connect the electricity from the base to the filament.
- 3. Because the epidermal cells are lost from time to time by the resistance of soil particles during the expansion of the root
- 4. Because it emits harmful ultraviolet rays which causes blindness for several minutes.
- 5. To allow the transportation of water from the soil to the plant.

Q3:

a)

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- 1- Plant can't lose excess water so no pressure formed and plant can't absorb water and salts
- 2- The filament will burn
- 3- The outer space and astronomical phenomena still un known for us **b**)
- 1- Lose excess water in form of water vapour
- 2- Increase force

Q4:

<u>a)</u>

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| 2- | Series connection | Parallel connection |
|----|---|----------------------------------|
| | When we cut one of these routes or one lamp | When we cut one of these routes, |
| | burns, the electric current doesn't continue to | or the lamp burns the electric |
| | flow and all the bulbs are turned off. | current moves in other bulbs and |
| | | bulbs still light. |

b)

- 1-The fixed point of a rigid bar rotate on.
- 2-Is the losing of water in the shape of water vapor from the leaves or from other green parts to its surroundings through holes in the plant leaves called "stomata".
- 3-The phenomenon by which water transports from the soil to the inside of the root hairs .from high concentration to low concentration

Q5:-

- 1- X 1st class
- 2- √
- 3-X oval shape with four arms
- 4-X converge
- 5- √

Test 4 p.117-118

Q1:-

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a) 1 b)1 c) 2 d) 2

Q2:-

- a) series
- b) transpiration
- c) galaxy

Q3:-

- 1- X thin
- 2- X lower surface
- 3- X Jupiter
- 4- X solar eclipse
- 5- X bec. its light glows like neon
- 6- √

Q4:-

- 1-to pass easily through soil particles
- 2- to avoid turned off of other lamps at which any lamp turned off or broken
- 3- wrong question (don't conserve) correct "2nd" bec the force arm longer than resistance arm
- 4- to protect filament from burning and increase its life time

Q5:-

- a)Don't place several connections in the same socket.
- b) Don't insert a metal object in the socket (Nail, screw driver, metal wire).
- c) Place a piece of plastic in the socket to prevent inserting any object in it.
- d) Don't touch the electric machines that are connected to the electric current with wet hands.

Q6:-

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force x its arm = resistance x its arm 50 x20 = resistance X 5 Arm of resistance = 50X 20 /5 = 200 cm

Test 5 p.119-120

Q1:-

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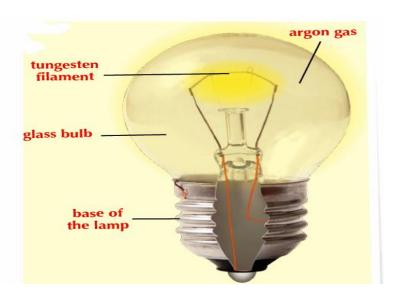
- 1- effort force resistance
- 2- force resistance
- 3- direct injuries indirect injuries
- 4- moon earth

Q2:-

(A)

- 1- 3rd class lever
- 2- semi shaded lunar eclipse
- 3- parallel

(B)



Q3:-

A)

- 1- to loss excess water in form of water vapor through transpiration process
- 2- bec moon all time smaller than earth
- 3- bec force arm all time longer than resistance arm

B)

- 1- Materials that allow electricity to flow through it
- 2- When a part of the moon enters the shadow area of the earth.

Q4:-

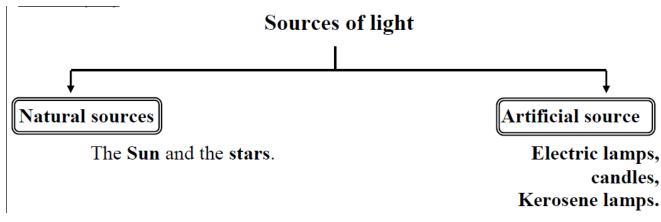
A) 1- \times 2nd 2- \vee 3- \times inert argon 4- \vee 5- \times 7mniute and 40 sec

B)

1-

| Solar eclipse | Lunar Eclipse |
|--|---|
| When the moon lies between the earth and the sun at one straight lines | When the earth comes between the moon and the sun at one straight line. |
| Solar eclipse always occurs in the morning. | Can be seen from any point on the earth at night. |
| Causing blindness and needs precautions from direct looking at it. | Doesn't require precautions or warning to look at it. Has no harms. |
| Duration doesn't exceed 7 minuets. | Duration is two hours or more. |

2-



C)

Force x its arm = resistance x its arm

 $200 \times 50 = 1000 \times 10$

10000 = 10000

BALANCED

It saves the effort because the effort force is less than the resistance force.

Test 6 p.121-122

Q1:-

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- 1- force fulcrum
- 2- sun –moon
- 3- Galileo telescope
- 4- stomata transpiration

Q2:-

- 1- 1st class lever
- 2- galaxy
- 3- root hair
- 4- electric lamp

Q3:-

A-

- 1- bec force arm all time shorter than resistance arm so force is greater than resistance
- 2- bec it absorbs water through osmosis from high concentration to low concentration
- 3- to avoid electrical shock during dial with

B-

- 1- danger of electricity due to pass of electricity through human body
- 2- astronomical phenomena at which earth found between sun and moon in nearly one straight line

Q4:-

Α-

1- $\sqrt{}$ 2- $\sqrt{}$ 3-X short age 4-X Jupiter

B-

 $\stackrel{\wedge}{\swarrow}$

force x its arm = resistance x its arm $500 \times 10 = 200 \times 20$

 $5000 \neq 4000$

Not balanced, Because the two sides are not equal.

THE END ©